

| FOREIGN PATENT DOCUMENTS |                       |  |                                |  |  |                |
|--------------------------|-----------------------|--|--------------------------------|--|--|----------------|
| Examiner Initials*       | Cite No. <sup>1</sup> | Foreign Patent Document  | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns,<br>Lines, Where Relevant<br>Passages or Relevant<br>Figures Appear | T <sup>6</sup> |
|                          |                       | Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup><br>(if known) |                                |  |  |                |
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| Examiner<br>Signature |  | Date Considered | 9/26/07 |
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This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS.

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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet

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of

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| Complete if Known     |                         |
|-----------------------|-------------------------|
| Application Number    | 09/844,759              |
| Filing Date           | April 26, 2001          |
| First Named Inventor: | J.J. Garcia-Luna-Aceves |
| Art Unit              | 2152                    |
| Examiner Name         | Changkong, Dohm         |

Attorney Docket Number 5543P004

## NON PATENT LITERATURE DOCUMENTS

| Examiner Initials* | Cite No <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published | T <sup>2</sup> |
|--------------------|----------------------|--|----------------|
| DC                 |                      | Bruce Schneier, "Applied Cryptography: Protocols, Algorithms, and Source Code in C," Second Edition, Table of Contents, pp. 30-31, 34-44, 466-474, 483-502, and 10 page errata sheet (1996)  |                |
| DC                 |                      | Bradley R. Smith, et al. "Federated Networks Bootstrap Services," University of California Computer Engineering, Santa Cruz, CA 95064, 2 pages (November 8, 1998)  |                |
| DC                 |                      | J.J. Garcia-Luna-Aceves and Ewerton L. Madruga, "The Core-Assisted Mesh Protocol," IEEE Journal on Selected Areas in Communications, Vol. 17, No. 8, pp. 1380-1394 (August 1999)   |                |
| DC                 |                      | Brian Neil Levine and J.J. Garcia-Luna-Aceves, "Improving Internet Multicast with Routing Labels," 10 pages (1997)   |                |
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Examiner Signature

Dohm Chang Kong

Date Considered

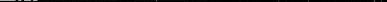
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| Attorney Docket Number | 5543P004                |

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|--------------------|----------------------|--|----------------|
| DC                 |                      | A. Heddya and S. Mirdad, "WebWave: Globally Load Balanced Fully Distributed Caching of Hot Published Documents," Proc. IEEE 17th International Conference on Distributed Computing Systems, Baltimore, Maryland, May 1997  |                |
|                    |                      | S. Gadde, M. Rabinovich, and J. Chase, "Reduce, reuse, recycle: An approach to building large Internet caches," in Proc. 6th Workshop Hot Topics in Operating Systems (HotOS-VI), Cape Cod, MA, May 1997, pp. 93-98.   |                |
|                    |                      | Alex Rousskov and Duane Wessels, "Cache digests," Proceedings 3rd International WWW Caching Workshop, Manchester, England (April 17, 1998)   |                |
|                    |                      | Renu Tewari, Michael Dahlin, Harrick M. Vin, and Jonathan S. Kay, "Design considerations for distributed caching on the internet," Technical report, Department of Computer Sciences, University of Texas Austin, <a href="http://www.cs.utexas.edu/users/UTCS/techreports/">http://www.cs.utexas.edu/users/UTCS/techreports/</a> (October 1998) |                |
|                    |                      | Paul Mockapetris, "Domain System Changes and Observations," Network Working Group, RFC 973 (January 1986)  |                |
|                    |                      | Chu et al., "A Case for End System Multicast," Proceedings of ACM SIGMETRICS, Santa Clara, CA, pp. 1-12 (June 2000)  |                |
| DC                 |                      | Sandra G. Dykes, et al., "An Empirical Evaluation of Client-side Server Selection Algorithms," IEEE Infocom, Vol. 3, pp. 1361-1370 (March 2000)  |                |
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Sheet 1 of 2

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Application Number 09/844,759

Filing Date April 26, 2001

First Named Inventor Garcia-Luna-Aceves, J.J.

Group Art Unit 2152

Examiner Name Chankong, Dohm

Attorney Docket No: 5543P004

**US PATENT DOCUMENTS**

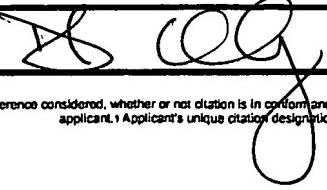
| Examiner Initial * | Cite No. * | USP Document Number | Publication Date | Name of Patentee or Applicant of cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|--------------------|------------|---------------------|------------------|---|---|
| DC                 |            | US-5,774,660        | 06/30/1998       | Brandel, Juergen , et al.                       |   |
|                    |            | US-5,822,320        | 10/13/1998       | Horikawa, Koichi , et al.                       |   |
|                    |            | US-5,859,966        | 01/12/1999       | Hayman, Kenneth J., et al.                      |   |
|                    |            | US-6,012,067        | 01/04/2000       | Sarkar, Shyam S.                                |   |
|                    |            | US-6,092,178        | 07/18/2000       | Jindal, Anita , et al.                          |   |
|                    |            | US-6,138,182        | 10/24/2000       | Pistriotto, Joseph C., et al.                   |   |
|                    |            | US-6,154,777        | 11/28/2000       | Ebrahim, Zahir                                  |   |
|                    |            | US-6,185,819        | 02/06/2001       | Joffe, Rodney L., et al.                        |   |
|                    |            | US-6,205,477        | 03/20/2001       | Johnson, Richard A., et al.                     |   |
|                    |            | US-6,304,913        | 10/16/2001       | Rune, Johan                                     |   |
|                    |            | US-6,314,465        | 11/06/2001       | Paul, Sanjoy                                    |   |
|                    |            | US-6,317,778        | 11/13/2001       | Dias, Daniel M., et al.                         |   |
|                    |            | US-6,397,246        | 05/28/2002       | Wolfe, Daniel C.                                |   |
|                    |            | US-6,405,252        | 06/11/2002       | Gupta, Ajit K., et al.                          |   |
|                    |            | US-6,438,652        | 08/20/2002       | Jordan, Kevin M., et al.                        |   |
|                    |            | US-6,449,647        | 09/10/2002       | Colby, Steven , et al.                          |   |
|                    |            | US-6,553,376        | 04/22/2003       | Lewis, Kevin T., et al.                         |   |
|                    |            | US-6,574,809        | 06/03/2003       | Downs, Edgar , et al.                           |   |
|                    |            | US-6,577,609        | 06/10/2003       | Sharony, Jacob                                  |   |
|                    |            | US-6,578,066        | 06/10/2003       | Logan, David B., et al.                         |   |
|                    |            | US-6,611,872        | 08/26/2003       | McCanne, Steven                                 |   |
|                    |            | US-6,708,187        | 03/16/2004       | Shanumgam, Udayakumar , et al.                  |   |
|                    |            | US-6,735,833        | 05/11/2004       | Welch, William                                  |   |
| DC                 |            | US-6,741,585        | 05/25/2004       | Munoz, Robert J., et al.                        |   |
| DC                 |            | US-6,785,704        | 08/31/2004       | McCanne, Steve                                  |   |

**FOREIGN PATENT DOCUMENTS**

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|--------------------|------------|---|------------------|---|---|----------------|
| DC                 |            | EP-0817444  | 01/07/1998       | Ebrahim, Zahir                                  |   |                |
| DC                 |            | EP-0817444 A3   | 12/27/2000       | Ebrahim, Zahir                                  |   |                |
| DC                 |            | EP-0959601  | 11/24/1999       | Chauhan, Abhishek                               |   |                |

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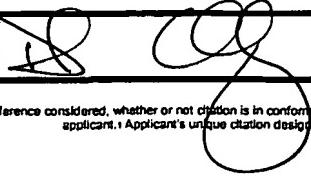
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| <b>Group Art Unit</b>                          | 2152                     |
| <b>Examiner Name</b>                           | Chankong, Dohm           |
|  |                          |
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|--------------------|----------|---|----------------|
| DC                 |          | "Cisco Distributed Director", <a href="http://wwwtlc.iet.unipi.it/VoiceIP/cisco/114.pdf">http://wwwtlc.iet.unipi.it/VoiceIP/cisco/114.pdf</a> , (October 1998),   |                |
| DC                 |          | JUENEMAN, ROBERT R., "Novell Certificate Extension Attributes", <u>Tutorial and Detailed Design</u> , (August 7, 1998), Version 0.998   |                |
| DC                 |          | MACLARTY, G. , et al., "Policy-based content delivery: an active network approach", <u>Computer Communications 24 (2001), University of Technology, Sydney, Faculty of Information Technology, Australia</u> , Elsevier Science B.V 2001,(2001),241-248         |                |

Filed: July 8, 2005EXAMINER 

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9/26/07